



EKOTAPE  
MODELS 205, 206

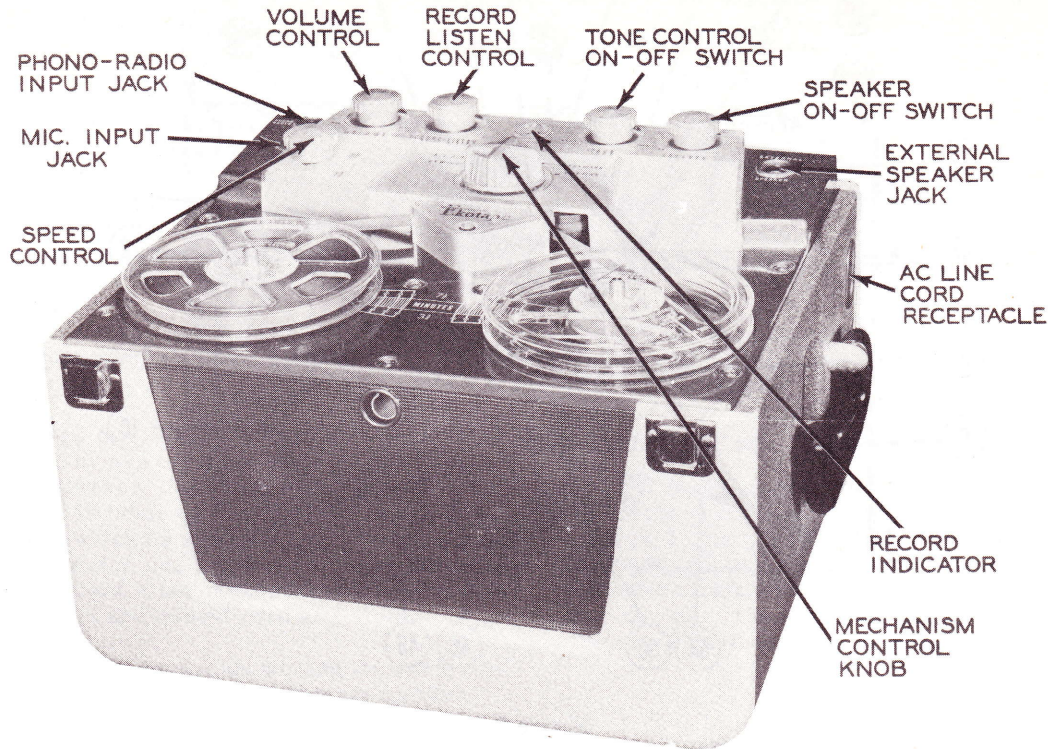


Figure 1

### GENERAL INFORMATION

The Webster Electric Ekotape Recorder Models 205 and 206 are essentially alike in basic design and construction. Both are twin-track, two speed-models, operating at tape speeds of either 3 3/4 or 7 1/2 inches per-second. Both models are portable. The accessories are interchangeable between the two models. Both models use class A amplification with the same type tubes.

The Ekotape is designed to record and playback two tracks of sound on a standard reel of tape. This allows two full, one hour programs to be recorded on a 7" reel at the 3 3/4" speed. Two half-hour programs may be recorded on a 7" reel at the 7 1/2" speed.

The main difference between Models 205 and 206 lies in the power input application. The Model 205 operates on 117 volts at 60 cycle per second, while the Model 206 operates on 115/230 volts at 50 cycles per second.

**CAUTION:** Severe damage may result if connection is made to a direct current (DC) line. Check serial nameplate for proper current and voltage application.

Manufactured by:

Webster Electric Company  
Racine, Wisconsin

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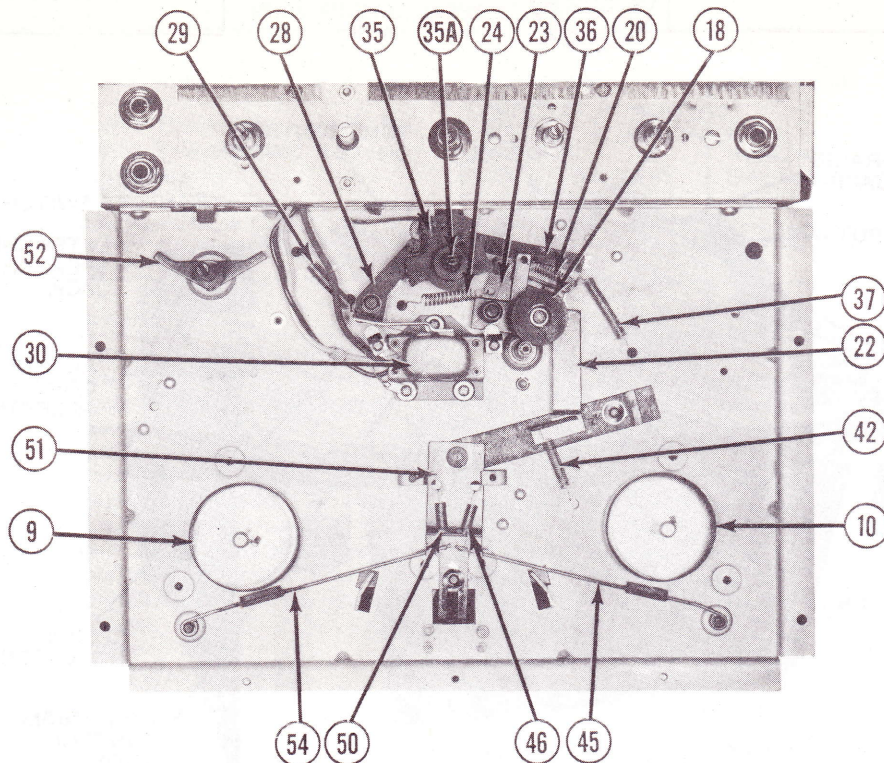


Figure 2

#### CONVERTING MODEL 206 FOR 115 VOLT OPERATION

Model 206 employs a large power transformer, with a primary tapped for selection of 115 or 230 volts. This model is shipped for 230 volt operation. To convert from 230 to 115 volt operation, proceed as follows:

Remove the short between the two center terminals, as shown on the schematic diagram, and solder a jumper wire from terminal with a black lead to terminal with a red lead. Solder a jumper from terminal with a green lead to terminal with a white lead. After making change of voltage operation, mark the nameplate in the cover of the carrying case for future reference.

#### OPERATING INSTRUCTIONS

##### Preparing The Ekotape For Recording-

1. Insert the AC power cord into the receptacle on the right side of the cabinet.
2. Plug the AC cord into a convenient wall receptacle of the proper rating.
3. Place a reel of tape on the left hand or "supply" spindle (9) in a manner so that the tape will unwind in a clockwise direction.

NOTE: The Ekotape is designed to use Type "A" wound tape, i. e. the dull magnetic coated side faces inward on the reel. If the tape used is Type "B" (coated side facing outward) the recording will be made at a very low sound level and the playback will be almost inaudible.

4. Place an empty reel on the right hand or "take-up" spindle.

5. Unwind approximately 10" of tape and, while holding a section of tape straight with both hands, insert the tape in the tape slot making sure the dull coated side of the tape faces the front of the recorder.

6. Insert the free end of the tape through to the hub of the "take-up" reel, forcing it into one of the three radial slots. While holding the tape in this position, turn the reel several turns (clockwise) until the tape is secured to the reel and all slack is taken up between reels.

##### To Make A Recording-

1. After the recording tape has been properly threaded, turn the "On-Off-Tone" control to the "On" position.
2. Turn the mechanism control knob (2) to "Forward".
3. Turn the "Record-Listen" selector knob to the "Record" position.

NOTE: The "Record-Listen" selector knob will stay in the "Record" position only when the mechanism control knob (2) is in the "Forward" position.

4. Turn the "Volume" control clockwise until the incoming signal causes the "Record Indicator" to flicker occasionally. A recording is now being made on the tape.



### To Record From Microphone-

1. Insert the microphone plug into the "Mic." jack, located on the left side of the top panel.
2. Follow the instructions under the heading of, "To Make A Recording".
3. Best results will be obtained if the microphone is kept closer to the source of sound than to any walls in the recording area to prevent echos of the sounds as they rebound off the walls.

NOTE: The microphone should be kept at least three feet away from the loudspeaker during recording unless the "Speaker" control knob is in "Off" position.

### To Record From Radio Or Television Receiver-

Recordings can be made from a radio or television receiver by placing the microphone near the loudspeaker; however, this type of recording may not be satisfactory as other sounds may be picked up by the microphone which as a result may be recorded on the tape. A superior quality recording can be made by use of Radio Cord Attachment accessory (Part No. SS477A). Connect attachment cord as follows:

1. Connect the cord clips across the voice coil terminals on the radio or television speaker.
2. Insert the cord plug into the "Phono-Radio" input jack located on the left side of the top panel.
3. Set the radio or television receiver for soft playing, then operate the Ekotape controls as described under "To Make A Recording".

### To Record From Phonograph-

1. Connect the alligator clips of the Radio Cord Attachment to the ends of the pickup leads of the phonograph and then insert the cord plug into the "Radio-Phono" jack. Proceed with the recording as described under "To Make A Recording".

NOTE: Should a hum develop from the above connections, reverse the cord clips on the pickup leads.

### To Rewind-

Turn the mechanism control knob (2) counter-clockwise into the "Rewind" position. When the rewinding is completed move the mechanism control knob (2) into "Stop" position and allow the tape to come to a complete stop before moving the mechanism control knob to any other function.

### Twin Track Operation-

Models 205 and 206 are twin-track units, which record on approximately half the width of the tape at one time.

1. To record a second program on the same tape, lift the full reel from the right hand spindle, turn it over, and place it on the left hand spindle.
2. Place the empty reel on the right hand spindle;

properly thread the tape, and continue your recording as described under "To Make A Recording".

NOTE: Since it is impossible to edit and splice one "track" without affecting the other, recordings which are to be edited should be limited to one track only.

### To Play A Recording-

1. With the tape properly threaded, turn the mechanism control knob (2) to the "Forward" position.
2. Adjust the "Volume" and "Tone" controls to suit.
3. Be sure the speaker "On-Off" switch, located on the right side of the top panel, is in the "On" position.

### Fast Forward-

If it is desired to reach a recording near the end of a tape in a few seconds, turn mechanism control knob (2) to the "Fast Forward" position. In the "Fast Forward" position the tape moves ahead approximately 15 times normal listening speed of 3 3/4 or 7 1/2 inches per second. The most rapid fast forward speed is therefore obtained with the speed control set at 7 1/2.

### REMOVING UNIT FROM CASE

All service work with the exception of cleaning the head assembly, adjustment or replacement of brake lever assemblies (45 & 54), remote lever assembly (51), pinch roller and lever assemblies (22), (23) and (18), pressure pad assembly (28), will not require removal of unit from the carrying case.

1. To remove the back cover (5) for cleaning of the head remove all control knobs, and remove two screws located under mechanism control knob (2). Move back cover (5) about 1/16 inch toward the front of the unit and lift straight up and off.
2. To remove record head cover (7), remove one attaching screw and lift off.
3. For removal of the top panel assembly (13), follow the above instructions and remove seven screws on panel and two under back cover (5). Lift panel straight up and off.
4. To remove recorder from carrying case, omit paragraph 1, 2 and 3, detach the AC line cord, remove two screws located on each side of the top panel. Carefully lift unit straight up and out, detaching speaker plug from amplifier to completely free unit.
5. When reassembling the unit, reverse the above procedure; plug the speaker plug into the amplifier. Be sure the speaker leads clear all moving parts before lowering into place.



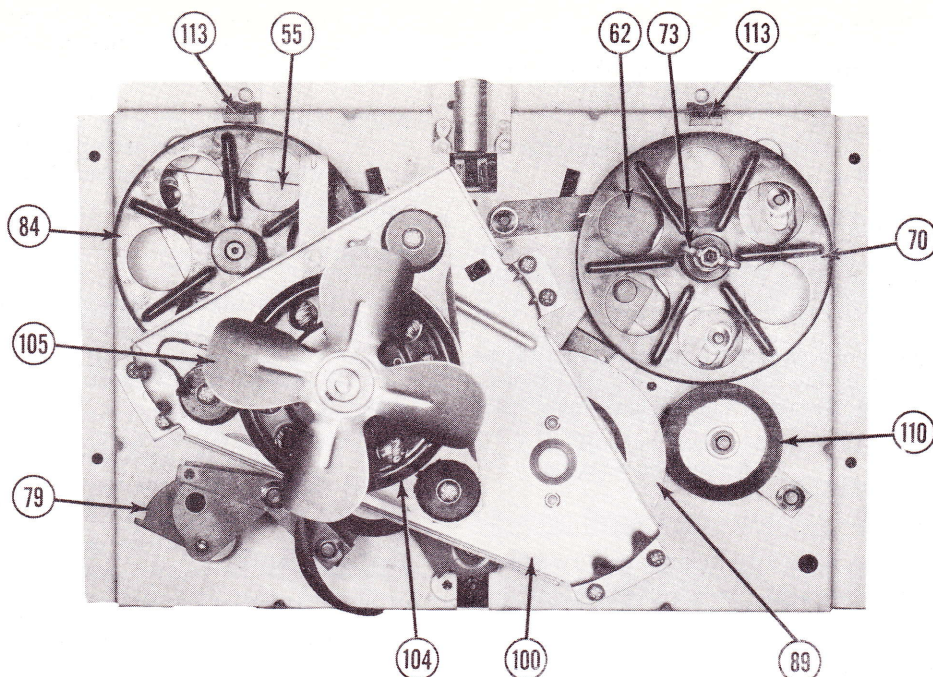


Figure 3

### TROUBLES AND REMEDIES

#### Motor And Amplifier Do Not Operate When Tone Control Switch Is Turned On-

1. Check fuse to see if it has blown.
2. Check to see if power is reaching recorder.
3. Damaged power cord.  
(a) Repair or replace.
4. Damaged "On-Off-Tone" control switch.  
(a) Replace tone control and switch assembly.

#### Sound Is Fuzzy, Faint, Distorted, Or No Sound-

1. Dirty head.  
(a) Check the record head (30) to see if it is dirty. The recording head is subject to an accumulation of tape coating residue, which is worn off the tape as it passes the head. This should be periodically removed since it may cause faint recordings and poor playback. Wipe off the record and erase head contact surfaces carefully with a clean cloth. If dirt is caked or hard and will not come off with a dry cloth, dampen the cloth slightly with carbon tetrachloride.

NOTE: Do not use a brush or excessive amount of solvent on the head surfaces.

2. Over recorded or under recorded tape.  
(a) Correct recording volume is very important. Too weak a signal, which does not cause the record level indicator to flicker, will result in weak playback and high background noise. Too strong a signal, causing the indicator to glow continuously, will result in distortion during playback.

3. Amplifier trouble.

4. Worn or dirty pressure pad. See "Pressure Pad And Lever Adjustments".

5. Pressure pad spring (29) loose or missing.  
(a) The pressure pad lever assembly (28) should apply pressure against the tape, thus holding the tape firm against the recording head. If this is not true, check the pressure pad spring (29); if loose or missing, replace.

#### Erasing Incomplete Or No Erase-

1. Dirt on face of play-record head.  
(a) Clean with soft cloth and carbon tetrachloride.
2. Oscillator coil assembly or tube not operating.  
(a) Check erase voltage with an AC vacuum tube voltmeter. There should be a reading of approximately 45 volts.
3. Defective erase coil in head.  
(a) Check erase head continuity.
4. Pressure pads worn or not properly adjusted. See "Pressure Pad And Lever Adjustments".

#### Failure To Record-

1. Record coil open.  
(a) Replace play-record head (30).
2. Insufficient bias voltage.  
(a) Check bias voltage across play-record head with an AC vacuum tube voltmeter. There should be a reading of approximately 100 volts.
3. Dirt on face of play-record head.  
(a) Clean with soft cloth and carbon tetrachloride.



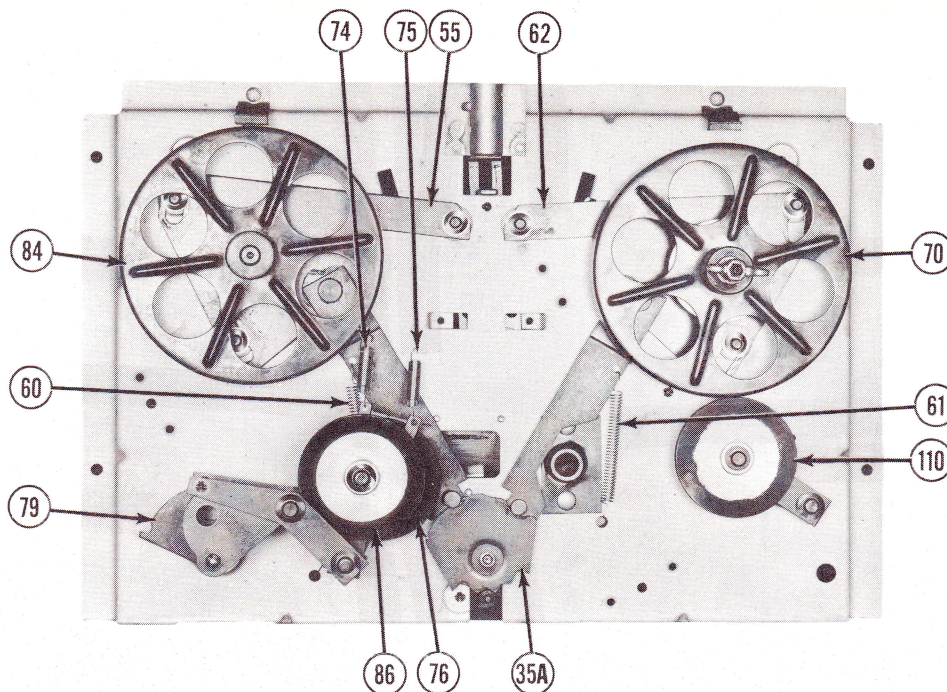


Figure 4

4. Pressure pad worn, defective or not properly adjusted.

(a) Adjust pressure pad or replace. See "Pressure Pad And Lever Adjustments".

#### Will Not Play Back-

1. Open coil in play-record head.  
(a) Replace head.
2. Open input circuit.  
(a) Check circuit.

#### Howl Or Ringing Sound-

1. Microphonic tube.  
(a) Replace defective tube.

#### Trouble Common To Radio Receivers-

1. Defective components.  
(a) Check and replace in accordance with standard practice.

#### Rewind Inoperative, Noisy Or Irregular-

1. Defective motor pulley assembly (94).  
(a) Replace.
2. Supply reel shaft support assembly (55), dirty or defective.  
(a) Clean, lubricate or replace.
3. Supply reel support spring (60) is broken.  
(a) Replace.
4. Brake (45) dragging on take-up reel.  
(a) Adjust brakes. See "Adjusting Brake Lever Assembly".

#### Tape Overruns From Rewind To Stop-

1. Take-up reel brakes (45) not functioning properly, worn or improperly adjusted.

(a) Replace or readjust. See "Adjusting Brake Lever Assembly".

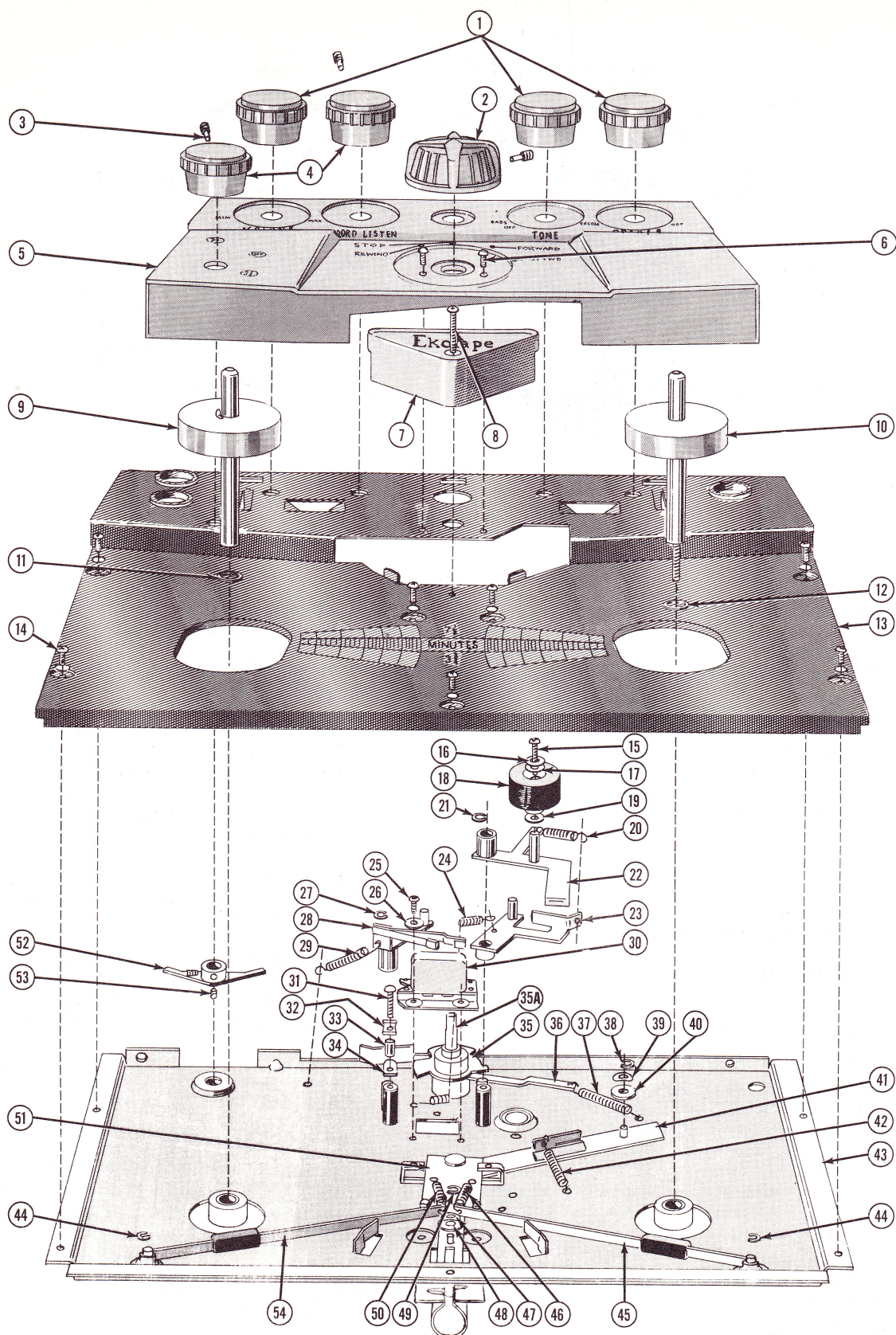
#### Take-Up Or Fast Forward Inoperative, Noisy Or Irregular Drive-

1. Take-up clutch worn or out of adjustment.  
(a) Adjust or replace. See "Correcting Take-Up And Fast-Forward Troubles".
2. Drive pin (67) missing.  
(a) Replace.
3. Brakes dragging on supply reel.  
(a) Adjust brakes. See "Adjusting Brake Lever Assembly".
4. Take-up reel support plate (62) dirty or damaged.  
(a) Clean, lubricate or replace. See "Correcting Take-Up And Fast-Forward Troubles".
5. Noisy, take-up or fast forward.  
(a) Clean, lubricate or replace.
6. Defective idler wheels (76 or 86).  
(a) Replace. See "Correcting Take-Up And Fast-Forward Troubles". (Paragraph 4).
7. Reel take-up support plate spring (61) broken.  
(a) Replace.

#### Tape Overruns From Fast Forward To Forward Position-

1. Supply reel brakes not functioning properly, worn or out of adjustment.  
(a) Replace or readjust. See "Adjusting Brake Lever Assembly".
2. Pinch roller (18) damaged or out of adjustment.



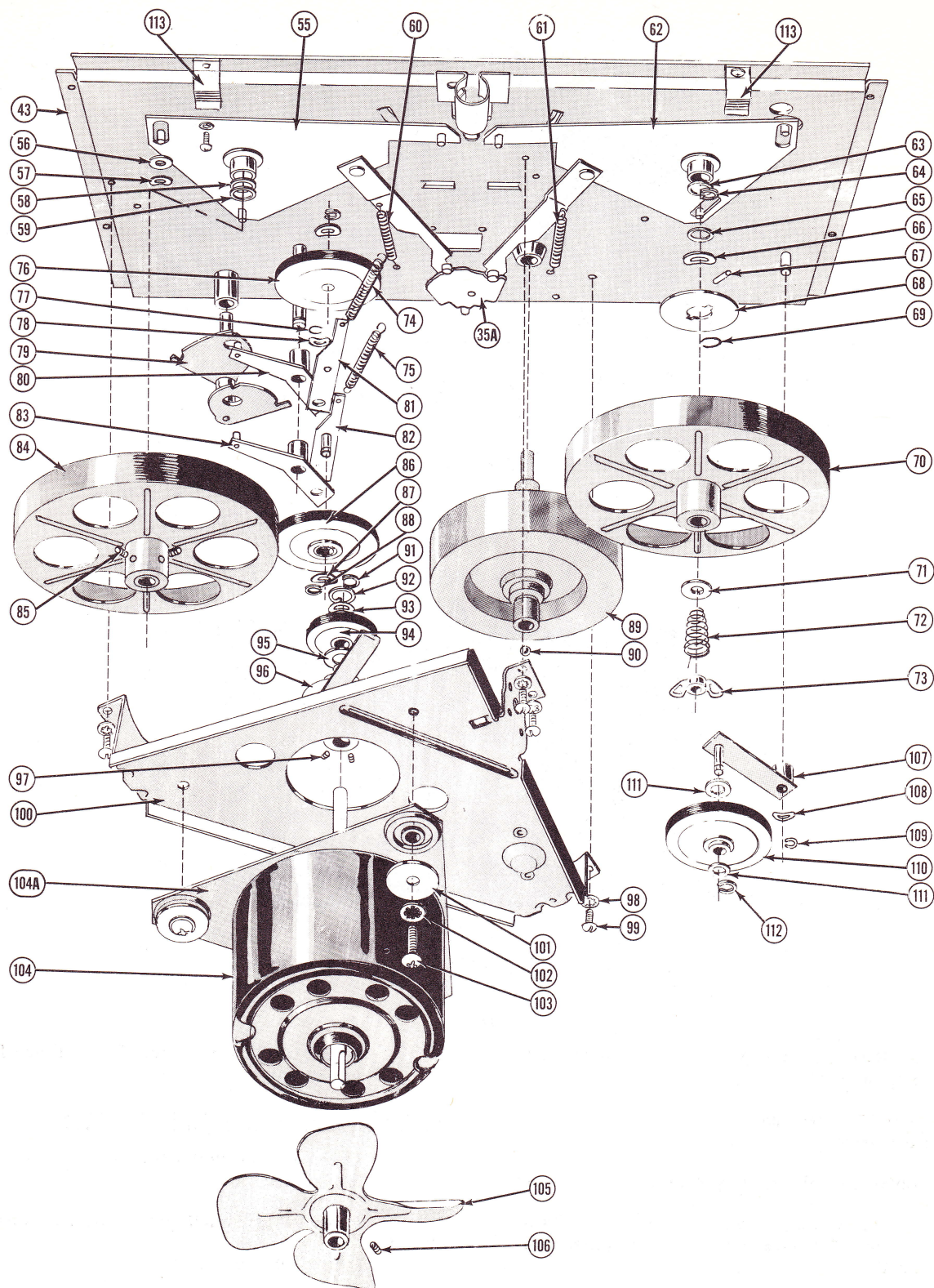


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Figure 5A. Exploded View Of Parts Above Baseplate.





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Figure 5B. Exploded View Of Parts Below Baseplate.



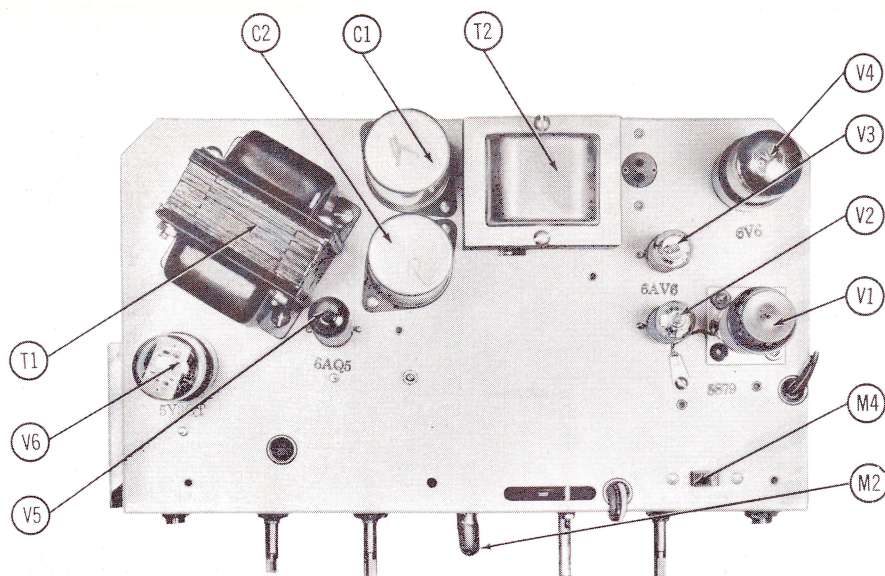


Figure 6

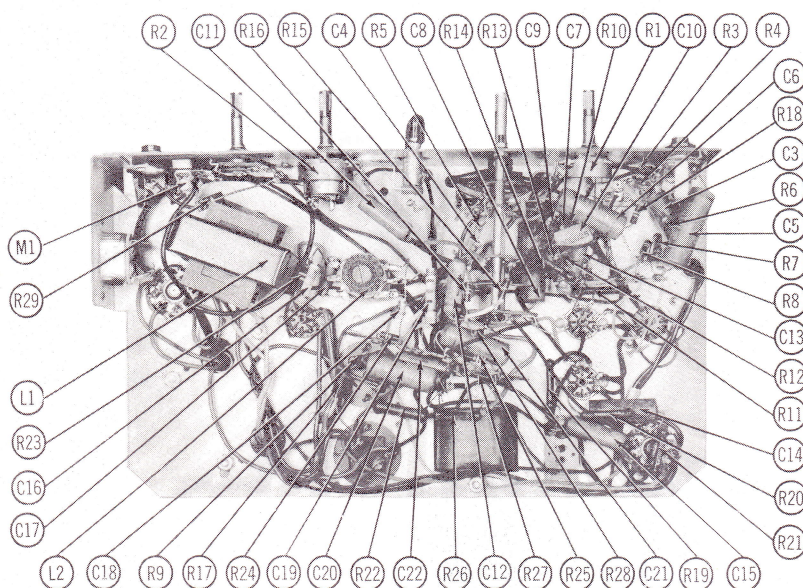


Figure 7

(a) Repair or replace. See "Pinch Roller Adjustment".

(a) Adjust or replace. See "Pinch Roller Adjustment".

#### Noisy Running In Stop And Forward Positions-

1. Defective idlers, dry bearings or flat spots on idlers.

(a) Clean, lubricate or replace. See "Correcting Take-Up And Fast-Forward Troubles".

#### Tape Spills Out Of Supply Reel From Stop To Forward Position-

1. Dirty or defective pinch roller (18).

(a) Clean, lubricate or replace. See "Correcting Take-Up And Fast-Forward Troubles".

2. Pinch roller lever assemblies (22 and 23) out of adjustment or damaged.

#### Mechanism Control Knob (2) Inoperative-

1. Loose set screw in knob.

(a) Tighten.

2. Loose set screws in pinch roller cam assembly (35).

(a) Adjust and tighten.

#### Speed Selector Not Functioning-

1. Broken springs (74 and 75) on drive idler assemblies.

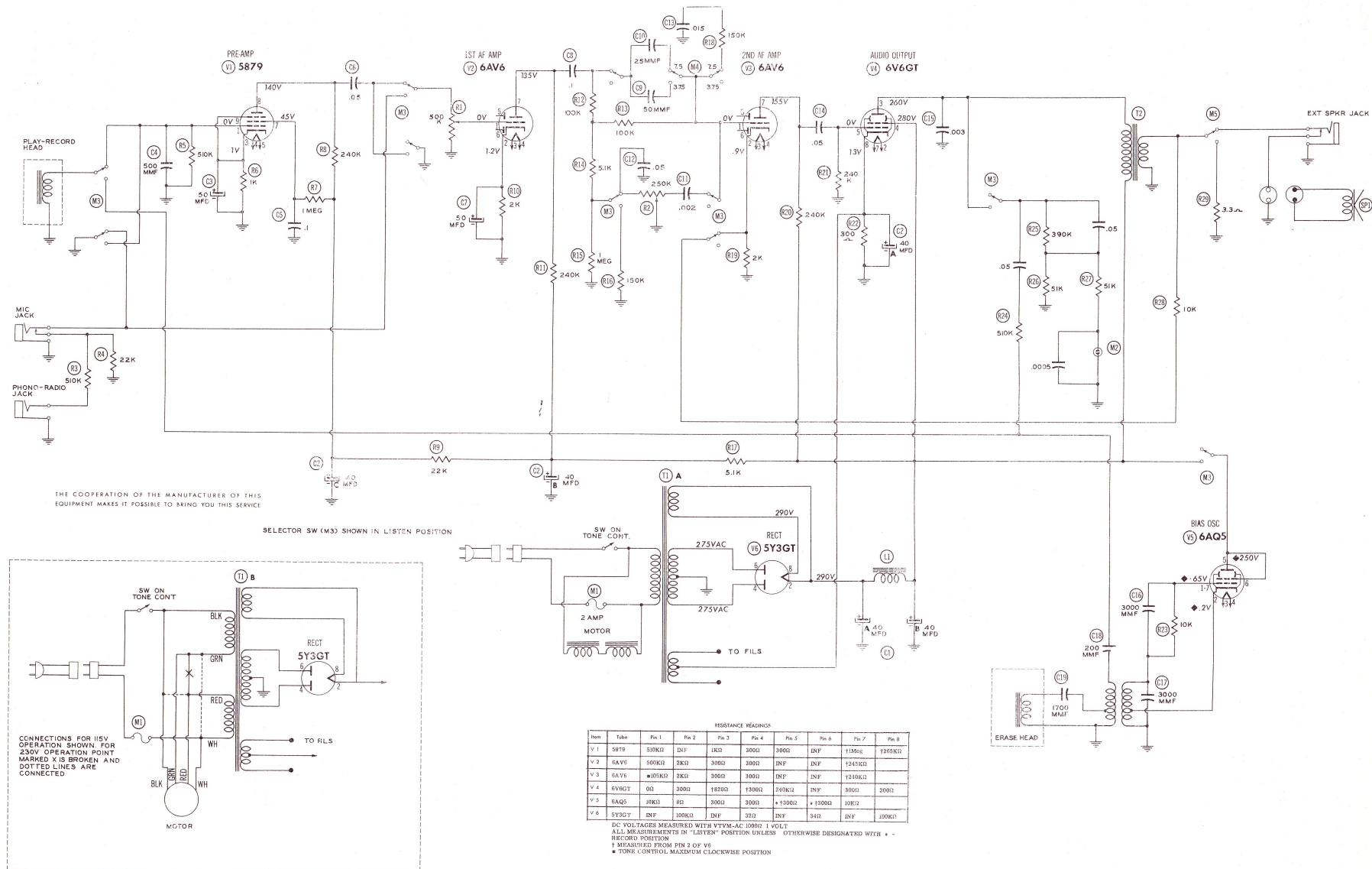
(a) Replace.

#### Speed Equalization Switch Not Functioning-

1. Switch cam assembly (52) loose or broken.

(a) Tighten or replace.





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2. Switch contacts worn, dirty or broken.
  - (a) Clean contacts or replace. See "Speed Equalization Switch Adjustment".

#### Machine Inoperative When Mechanism Control Knob Is Operated-

1. Damaged or worn cam and shaft assembly (35A).
  - (a) Replace.

#### ADJUSTMENTS

##### Pressure Pad And Lever Adjustments-

Cleaning, adjusting or replacing pressure pad assembly and lever assemblies should be done in the following manner:

1. To adjust pressure pad assembly (28), remove back cover (5) and top panel (13). To remove assembly for cleaning, repair or adjustment, remove spring (29) and retaining ring (27). Rotate the pressure pad assembly slightly counter-clockwise and lift off. Reassemble in reverse order and lubricate (see "Lubrication"). Adjust by turning cam and shaft assembly (35A) to "Forward" position and check to be sure pressure pads engage groove of head properly.

NOTE: Be sure flat of pad presses against the erase and record pole pieces. To adjust properly, bend levers accordingly.

##### Improper Rewind Operation-

If the unit does not perform the rewind operation properly, check as follows:

1. A defective motor pulley (94) may be the cause of improper rewind. To replace a defective motor pulley assembly, remove the three mounting screws (103) from motor and plate assembly (104). Carefully remove the assembly so as not to damage the drive idler assemblies (76 and 86). Before removing the motor pulley measure and note distance from hub to motor. Loosen the two Allen head set screws and remove the motor pulley assembly. Reassemble with a new pulley in reverse order. Be sure pulley hub is correct distance from motor as previously noted.
2. A dirty or defective supply reel shaft support assembly (55) may be responsible for improper rewind. To correct faulty operation, clean, repair or replace any damaged or worn parts.

##### Adjusting Brake Lever Assembly (45 and 54)-

If tape overruns from "Rewind" to "Stop" position, adjust, clean or replace brake lever assembly (45).

1. To adjust brake lever assembly (45), turn cam and shaft assembly (35A) to "Rewind" position. Adjust either by bending the brake lever assembly (45) or by slightly bending the stop on mechanism panel just enough to clear the cup disc on reel shaft (10). Clearance should not exceed 1/64 inch. Adjust brake lever (45) so that remote lever (51) returns to "Stop" position. Check to be sure brake lever (54) on the supply reel (9) is being held in its stop position

by the remote lever assembly (51). If not, turn cam and shaft assembly (35A) to "Fast Forward" and adjust brake lever assembly (54) as outlined above. Before reassembly of top panel, thread recorder with tape and check unit for any further trouble.

2. If tape overruns from "Fast Forward" to "Forward", check operation of brake lever (54) as explained in above paragraph with this exception; turn cam and shaft assembly (35A) to "Fast Forward" position and adjust brake lever (54) on the supply reel (9). Check brake lever (45) on the take-up reel to be sure it is held in its stop position by the remote lever assembly (51). If not, turn cam and shaft assembly (35A) to "Rewind" and adjust brake lever as covered in above paragraph.

##### Adjusting Brake Arm Assembly (113)-

If after completing adjustments as covered in "Adjusting Brake Lever Assembly", the overrun on "Rewind" and "Fast Forward" is not corrected, remove the unit from the case and check as follows:

1. Check "Rewind" position first and adjust or replace brake arm assembly (113). First be sure brake pad is still attached to arm. Turn cam and shaft assembly (35A) to the "Rewind" position and adjust the brake arm (113) so pad just clears the reel pulley assembly (70) but by no more than 1/64 inch.
2. Check "Fast Forward" position and adjust or replace brake arm assembly (113). First be sure brake pad is still attached to arm. Turn cam and shaft assembly (35A) to "Fast Forward" position and adjust brake arm (113) so that the pad clears reel pulley assembly (84) by no more than 1/64 inch.

##### Correcting Take-Up And Fast Forward Troubles-

If take-up and fast forward drive does not function properly, remove unit from case and check as follows:

1. If the take-up or fast-forward drive is weak, screw the self-locking wing nut (73) on the reel shaft (10) so spring (72) will produce a greater friction drive.
2. If after adjusting the self-locking wing nut (73) a weak drive still exists, then remove wing nut, spring (72), washer (71) and reel pulley assembly (70) and check felt pad on pulley. If pad is worn badly, replace assembly (70), but if pad shows no excessive wear, remove clutch disc (68) and check to see if drive pin (67) is in place. Replace pin if missing and reassemble in reverse order and adjust wing nut.
3. If unit is noisy in "Forward" or "Fast-Forward" position, check to see if idler assembly (110) is dirty or damaged. Or it may be the result of dirty bearings on the take-up shaft or pulley assembly. To check, inspect idler assembly (110) and determine if dirty or defective. Remove retaining ring (112), fibre washer (111), idler assembly (110), and fibre washer (111). Clean any dirt or oil from idler tire and



bearing. Clean flywheel and shaft assembly (89), drive area only, also reel pulley (70) drive area with a suitable solvent. Relubricate idler bearing and reassemble in reverse order.

4. If noise still exists in "Forward" or "Fast-Forward" position check the reel shaft assembly (10). Remove wing nut (73) and spring (72), washer (71), reel pulley (70), clutch disc (68), pin (67), U-washer (66), washer (65), retaining ring (64), fibre washer (63), reel pulley assembly (10) and fibre washer (12). Clean and inspect all parts for wear or damage. Clean the bearing in the reel support assembly (62) and inspect bearing. Relubricate and replace any defective parts and reassemble in order shown on exploded view.

#### Pinch Roller Adjustment-

If pinch roller is damaged or out of adjustment, clean and adjust in the following manner:

1. To clean the follower lever assembly (23) and the pinch roller lever assembly (22), remove springs (20 and 24), and retaining ring (21). Remove both assemblies and shaft attached to mechanism plate. Clean thoroughly, removing old grease and dirt, and relubricate. Reassemble in reverse order. Adjust tab on follower lever assembly (23) so that pinch roller (22) engages flywheel capstan just before lever (54) releases supply reel pulley (9) from "Stop" position to "Forward". This prevents flare out of the tape in the supply reel, from "Stop" to "Forward" position.

## MAINTENANCE

### Cleaning The Play-Record Head-

The play-record head is subject to an accumulation of tape coating residue which is worn off the tape as it passes the head. This should be periodically removed since it may cause faint recordings and poor playback. Wipe off the record and erase head contact surfaces carefully with a clean cloth. If dirt is caked on hard and will not come off with a dry cloth, dampen the cloth slightly with carbon tetrachloride.

NOTE: Do not use a brush or excessive amount of solvent on the head surfaces.

### Lubrication-

On normal use, the Ekotape requires a limited amount of lubrication. Motor, flywheel shaft, reel spindles, pinch roller assembly and idlers operate in oilite bearings. Whenever unit is disassembled for repair, clean all bearings, cams, and levers, and lubricate the following:

1. Lubricate all oilite bearings with SAE 20 oil.
2. Lubricate all cams and levers with Liqui-Moly NV Grease or equivalent.
3. Apply a thin film of lubricant on the working areas of parts.

NOTE: Do not use cleaning solvent on oilite bearings. Do not overlubricate.

## ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
V1		5879, Pre-Amplifier	R1	241-17940	Volume Control, 500K $\Omega$
V2		6AV6, 1st AF Amplifier	R2	241-17941	Tone Cont. & On-Off Switch, 250K $\Omega$
V3		6AV6, 2nd AF Amplifier	R3	29501-53	Resistor, 510K $\Omega$ , 1/2 Watt
V4		6V6GT, Audio Output	R4	29501-29	Resistor, 22K $\Omega$ , 1/2 Watt
V5		6AQ5, Bias Oscillator	R5	29501-53	Resistor, 510K $\Omega$ , 1/2 Watt
V6		5Y3GT, Rectifier	R6	29501-11	Resistor, 1K $\Omega$ , 1/2 Watt
C1A	241-14236	Elect. Cap., 40mfd. @ 450V.	R7	29501-57	Resistor, 1Meg., 1/2 Watt
C1B		Elect. Cap., 40mfd. @ 450V.	R8	29501-48	Resistor, 240K $\Omega$ , 1/2 Watt
C2A	241-14238	Elect. Cap., 40mfd. @ 25V.	R9	29501-29	Resistor, 22K $\Omega$ , 1/2 Watt
C2B		Elect. Cap., 40mfd. @ 450V.	R10	29501-14	Resistor, 2K $\Omega$ , 1/2 Watt
C2C		Elect. Cap., 40mfd. @ 450V.	R11	29501-48	Resistor, 240K $\Omega$ , 1/2 Watt
C3	S6063	Elect. Cap., 50mfd. @ 6V.	R12	29501-41	Resistor, 100K $\Omega$ , 1/2 Watt
C4	S3750	Cap., Ceramic, 500mmf.	R13	29501-41	Resistor, 100K $\Omega$ , 1/2 Watt
C5	S3595	Cap., Paper, .1mfd. @ 400V.	R14	29501-21	Resistor, 5.1K $\Omega$ , 1/2 Watt
C6	S4261	Cap., Paper, .05mfd. @ 400V.	R15	29501-57	Resistor, 1Meg., 1/2 Watt
C7	S6063	Cap., Elect., 50mfd. @ 6V.	R16	29501-44	Resistor, 150K $\Omega$ , 1/2 Watt
C8	S3595	Cap., Paper, .1mfd. @ 400V.	R17	29501-75	Resistor, 5.1K $\Omega$ , 1 Watt
C9	S6065-11	Cap., Ceramic, 50mmf.	R18	29501-44	Resistor, 150K $\Omega$ , 1/2 Watt
C10	29670-6	Cap., Mica, 25mmf.	R19	29501-14	Resistor, 2K $\Omega$ , 1/2 Watt
C11	S4510	Cap., Paper, .002mfd. @ 600V.	R20	29501-48	Resistor, 240K $\Omega$ , 1/2 Watt
C12	S4261	Cap., Paper, .05mfd. @ 400V.	R21	29501-48	Resistor, 240K $\Omega$ , 1/2 Watt
C13	S4351	Cap., Paper, .015mfd. @ 400V.	R22	29501-98	Resistor, 300 $\Omega$ , 1 Watt
C14	S4261	Cap., Paper, .05mfd. @ 400V.	R23	29501-24	Resistor, 10K $\Omega$ , 1/2 Watt
C15	241-16370	Cap., Paper, .003mfd. @ 1000V.	R24	29501-53	Resistor, 510K $\Omega$ , 1/2 Watt
C16	241-14260-1	Cap., Ceramic, 3000mmf.	R25	29501-51	Resistor, 390K $\Omega$ , 1/2 Watt
C17	241-14260-1	Cap., Ceramic, 3000mmf.	R26	29501-35	Resistor, 51K $\Omega$ , 1/2 Watt
C18	S6065-3	Cap., Ceramic, 200mmf.	R27	29501-35	Resistor, 51K $\Omega$ , 1/2 Watt
C19	241-14260-2	Cap., Ceramic, 1700mmf.	R28	29501-76	Resistor, 10K $\Omega$ , 1 Watt
C20	S4261	Cap., Paper, .05mfd. @ 400V.	R29	29502-21	Resistor, 3.3 $\Omega$ , 1 Watt
C21	211-14912	Cap., Paper, .05mfd. @ 200V.	T1A	242-17934	Power Transformer - Mod. 205
C22	S4556	Cap., Paper, .0005mfd. @ 600V.			



## ELECTRICAL PARTS LIST (Con't.)

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
T1B	242-18104	Power Transformer - Mod. 206	M1		Fuse, 2 Amp.
T2	242-17936	Output Transformer	M2		Neon Lamp, Type NE-51
SP1	241-14070	Speaker	M3	242-18165	Selector Switch Assembly
L1	242-17937	Filter Choke	M4	241-17949	Equalizer Switch
L2	241-14246-1	Bias Oscillator Coil	M5	241-17942	Speaker Switch

## MECHANICAL PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	241-17818	Control Knobs, Amplifier	59	241-17770	Washer, Fibre
2	242-17822	Mechanism Control Knob Assy	60	241-17801	Spring
3	241-15116	Socket Hd. Set Screw, Special (used on item 4)	61	241-17801	Spring
4	242-17815	Knob Assembly	62	242-17703	Reel Shaft Support Assy. (right)
5	241-17816	Back Cover	63	241-17770	Washer, Fibre
6	29529-14	Rec. Pan Hd. Mach. Screw	64	29650-2	Retaining Ring
7	241-17817	Record Head Cover	65	29602-133	Washer, Steel
8	29529-27	Rec. Pan Hd. Mach. Screw	66	241-17775	U-Washer, Steel
9	242-17761	Reel Shaft Assembly (left)	67	241-17086-4	Pin
10	242-17771	Reel Shaft Assembly (right)	68	241-17777	Clutch Disc
11	241-17770	Washer, Fibre	69	29650-2	Retaining Ring
12	241-17770	Washer, Fibre	70	242-17773	Reel Pulley Assembly
13	242-17830	Top Panel Assembly	71	29602-102	Washer, Steel
14	29529-28	Mach. Screws, Top Panel Mtg.	72	241-17644	Spring
15	29527-4	Screw	73	241-17799	Self Locking Wing Nut
16	29602-103	Washer, Steel	74	241-17802	Spring
17	241-17747	Washer, Fibre	75	241-17802	Spring
18	242-17744	Pinch Roller Assembly	76	242-17736	Top Lever and Idler Assembly
19	241-17722	Washer, Fibre	77	29650-1	Retaining Ring
20	242-12138	Spring	78	241-17723	Spring Tension Washer
21	29650-1	Retaining Ring	79	242-17724	Cam Shaft Assembly
22	242-17741	Pinch Roller Lever Assembly	80	242-17737	Follower Lever Assembly
23	242-17739	Follower Lever Assembly	81	242-17738	Idler Link Assembly
24	241-17734	Spring	82	242-17738	Idler Link Assembly
25		Screw, Record Head Mounting	83	242-17732	Follower Lever Assembly
26		Flat Washer, Steel	84	242-17766	Reel Pulley Assembly
27	29650-1	Retaining Ring	85		Set Screw, Allen
28	242-17748	Pressure Pad Assembly	86	242-17731	Lower Lever and Idler Assy.
29	241-17801	Spring	87	241-17723	Spring Tension Washer
30	242-14159	Play-Record-Erase Head Assy.	88	29650-1	Retaining Ring
31	29527-13	Screw (2 used)	89	242-17778	Flywheel and Shaft Assembly
32	241-17754	Top Tape Guide (2 used)	90	241-13609	Steel Ball
33	241-17753	Tape Guide Spacer (2 used)	91	29650-1	Retaining Ring
34	241-17752	Tape Guide Shelf	92		Keyed Washer
35	242-17710	Pinch Roller Cam Assembly	93	241-17723	Spring Tension Washer
35A	242-17707	Cam and Shaft Assembly	94	242-17788	Motor Pulley Assy. -Model 205 (Includes items 95, 96 and 97)
36	242-17713	Index and Interlock Lever Assy.		242-17788	Motor Pulley Assy. -Model 206 (Includes items 95, 96 and 97)
37	241-17801	Spring			Motor Pulley Clutch Washer
38	29651-1	Retaining Ring	95		Motor Pulley
39	241-12059	Spring Tension Washer	96		Allen Set Screw
40	29602-124	Washer	97		Lockwasher
41		Remote Lever Arm (part of item 51)	98		Support Plate Mounting Screw
42	241-17734	Spring	99		Support Plate Assembly
43	242-17683	Mechanism Plate Assembly	100	242-17765	Washer, Steel
44	29651-1	Retaining Ring	101		Lockwasher
45	242-17758	Brake Lever Assembly	102		Motor Mounting Screw
46	241-17734	Spring	103		Motor - Model 205
47	241-12059	Spring Tension Washer	104	241-17674	Motor - Model 206
48	29602-122	Washer		241-17787	Motor Mounting Plate
49	29651-1	Retaining Ring	104A	241-17786	Fan
50	241-17734	Spring	105	241-14134	Set Screw
51	242-17755	Remote Lever Assembly	106		Idler Link Assembly
52	242-17728	Switch Cam Assembly	107	242-17716	Spring Tension Washer
53		Set Screw	108	241-17723	Retaining Ring
54	242-17758	Brake Lever Assembly	109	29650-1	Idler Assembly - Model 205
55	242-17695	Reel Shaft Support Assy. (left)	110	242-17719	Idler Assembly - Model 206
56	29602-124	Washer		242-17719-1	Washer, Fibre
57	241-12059	Spring Tension Washer	111	241-17722	Retaining Ring
58	241-17770	Washer, Fibre	112	29650-1	Brake Arm Assembly
			113	242-17884	